

# Ramish Ur Rehman

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## EXPERIENCE

### Bananapie GmbH

Artificial Intelligence - Senior Python AWS Developer | March 2023 – Present

#### GIBION AI

- Actively engaged in refining and expanding Gibion's capabilities through iterative API development using FastAPI, PostgreSQL, Docker, AWS, and integrating LangChain, continuously driving the platform towards operational excellence and heightened user satisfaction.
- Engineered the design and architecture of Gibion AI, forming the backbone of "Gibion's" comprehensive SaaS functionalities similar to globally recognized AI SaaS platforms.
- Orchestrated resilient and scalable cloud deployments utilizing AWS services such as IAM, Lambda, Elastic Beanstalk, ECS, EC2, and ECR, ensuring Gibion's high availability by handling 1000 AI Background Jobs simultaneously.
- Managed and optimized data interactions using SQLAlchemy and PostgreSQL, facilitating seamless data pre-processing and efficient data flow, crucial for AI-driven operations to load or save Big Data from S3 in less than a second.
- Established a robust CI/CD pipeline leveraging Docker, AWS CodePipeline, CodeBuild, and ChatbotSlack, accelerating the development cycle and guaranteeing high-quality releases and their updates to the Dev Team.
- Integrated OpenAI and Langchain for advanced language model implementation, advancing "Gibion's" automated flow generation capabilities such as Prompts Chaining and LLM fine-tuning to generate AI flows for sales team, SEO team and marketing.
- Data preparation and pre-processing using NLP techniques to reduce data tokens cost.

### Winterwind Inc.

Artificial Intelligence - Python Developer | Aug 2021 – Feb 2023

#### SAMSUNG SDS

- Developed microservices for Samsung Annotation App and Admin UI Tool using FastAPI, PostgreSQL, Redis, Docker Compose, and AWS EC2.
- Integrated RedBrickAI with Samsung BrighticsAI to create a connector for Samsung AutoLabel Server to speed up the data labeling and annotation processes.
- Engineered tools for machine learning processes, including inference, training, and initialization for Samsung AutoLabel Server labeling 80% image/video data automatically utilizing AI and running it through multiple review cycles manually from the rest of 20% data.
- Wrote python scripts to automate the process of import/export of data between AWS S3 Bucket & RedBrick AI interchangeably.
- Designed and established ML pipelines on Kubeflow and defined models for Annotation App using pydantic and SQLAlchemy ORM.
- Collaborated in daily SCRUM meetings, discussing project developments and strategies with both internal and external stakeholders including Data Science, Project Management, Development and Stanford Medical Team.

### NXT LABS

Blockchain - Senior Python AWS Developer (part-time) | Mar 2022 - Oct 2022

#### WGMI - We're Gonna Make It

- Designed and implemented serverless backends using AWS Serverless Stack, SQS, S3, Lambda, Python, and DynamoDB supporting massive API calls simultaneously.
- Developed an Authentication Service utilizing AWS SAM for WGMI using AWS Custom Authorizer.
- Integrated Metamask with WGMI Ethereum Network and utilized Moralis and OpenSea for web3 token and NFTs retrieval.

## SKILLS

### **PYTHON FRAMEWORKS & LIBRARIES**

| FastAPI, Flask, Django, Pandas, Numpy, Pytest, Boto3, Scrapy, Scikit-Learn, NLTK, Tensorflow, OpenAI, OpenCV, Tkinter, Threading, WebSocket and Langchain

**AWS SERVICES** | SQS, EC2, ECS, ECR, Lambda, S3, IAM, Dynamo DB, API Gateway, RDS and Elastic Beanstalk

**PROJECT MANAGEMENT** | Jira, Trello, GIT, GITLAB, BITBUCKET AND GITHUB

**PROGRAMMING** | C++, Python, JS, Bash, HTML/CSS, OOP, SOLID and Data Structures

**DEVOPS** | Docker, Kubernetes, Prometheus, GitHub Workflows and CodePipeline

**DATABASES & CLOUD** | PostgreSQL, SQL Server, MongoDB, AWS and Redis Queue

## CERTIFICATIONS

### **BUILDING MODERN PYTHON**

**APPLICATIONS ON AWS** | Through Coursera taught by "AWS".

### **MACHINE LEARNING BY**

#### **"STANFORD UNIVERSITY" |**

Through Coursera taught by Andrew Ng.

### **PYTHON – DATA MINING AND**

**MACHINE LEARNING** | Through Udemy taught by Mark Nielso.

### **LEARN PYTHON & ETHICAL**

**HACKING** | Through Udemy taught by Zaid Sabih.

- Wrote integration test cases with pytest, mockito, and boto3 in CI/CD pipelines, and deployed applications using AWS CloudFormation.
- Leveraged Docker within AWS SAM CLI and GitLab for seamless deployments.
- Integrated Infura for ERC1155 wallet balance checks.

## **Rewterz**

DevSecOps-Python Developer | Oct 2019 - Aug 2021

### **SOAR Platform (sirp.io) Development**

- Engineered a Heatmap dashboard for data visualization utilizing Flask, Jinja, Bootstrap, JavaScript, and SQLAlchemy, aggregating information from various data sources to help cybersecurity analysts in incident tracking and management.
- Spearheaded SIRP integration with platforms including Slack, Jira, AWS, Gmail, Zoho Desk, and ELK for giving cybersecurity teams access to data from across the environment and complete actions from any tool at the click of a button.
- Developed application-level integrations via API interactions, leveraging JSON web services for ingestion and utilization of threat intelligence feeds.
- Oversaw the full development lifecycle, from requirement gathering from Financial Institutions and system analysis to deployment.

### **Data Mining for Automation**

- Developed Python scripts using BeautifulSoup, Scrapy, and Selenium for efficient web data scraping.
- Crafted memory-optimized cron jobs in Python for large-scale JSON and CSV parsing and data analytics.
- Leveraged advanced data structures and object-oriented principles to design algorithms.

## **SATATECH**

Software Developer Python | Dec 2018 – Oct 2019

### **Shopattip (shopattip.com)**

- Worked on an e-commerce platform implementing a market-basket algorithm to enhance sales by understanding customer shopping behaviors.
- Developed front-end interfaces for shop admins, vendors, and customer panels using Jinja, HTML, CSS, and Bootstrap.
- Collaborated in developing RESTful APIs in Python with Flask and SQLAlchemy for efficient data center resource management.
- Utilized Python for database operations on SQL Server and MYSQL through ORM, executing stored procedures and data updates.
- Ensured API security by integrating JWT authentication, and facilitated dynamic web interactions using AJAX with RESTful API and JSON.

## **EDUCATION**

### **SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY**

B.S., Information Technology

Jan 2017 – Dec 2021

CGPA: 3.86/4.00

### **GOVT DEHLI COLLEGE KARACHI**

HSC., Pre-Engineering

2014 – 2016

Grades: 70%

## **Honors & AWARDS**

**EMPLOYEE OF THE MONTH |** NXT

LABS | April 2022

**TEAM MEMBER OF THE WEEK |**

Winterwind Inc. | Dec 2021

**SILVER MEDALIST (2ND POSITION)**

| Sir Syed University of Engineering & Technology | Mar 2021

**STAR PERFORMER |** Rewterz | Jun

2020